BIXOLON®

Unified Utility-II Manual

Label Printer

Rev. 1.02

SLP-TX400 / TX400E
SLP-TX403 / TX403E
SLP-DX420 / DX420E
SLP-DX423 / DX423E
SLP-DX220 / DX220E
SLP-DX223 / DX223E

http://www.bixolon.com

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1. Foreword

The Unified Label Utility-II can be used for various purposes.

Details on the usage of each function are described as follows.

1) User Setting Manager
   This function is used to change default settings of the printer, including code pages, serial settings, paper size, and print density, to values suited to the user environment.

2) Configure Print Quality
   This function is used to configure optimal printing quality. Sample labels are printed out with various settings for reference.

3) Manual Calibration
   This function is used to calibrate meida sensor manually.

4) PCX File Downloader
   This function is used when saving a black-and-white PCX-format image to flash memory.

5) File transfer
   This function is used when sending test files, such as command scripts, to the printer.

6) Printer Tools
   This function is used to check various information of printer and execute various printer mode.

7) Communication Window
   This function is used to test printing-related commands and create a brief label sample for test printing. This function is also used to read data response from printer.

8) SLCS Test Tool
   This function is used to test printing-related commands of the SLCS (Bixolon Label Command Set) and create a brief label sample for test printing.

We at BIXOLON maintain ongoing efforts to enhance and upgrade the functions and quality of all our products. In following, product specifications and/or user manual content may be changed without prior notice.

2. Operating System (OS) Environment

The following operating systems are supported for usage.

Microsoft Windows XP (32bit, 64bit)
Microsoft Windows Server 2003 (32bit, 64bit)
Microsoft Windows VISTA (32bit, 64bit)
Microsoft Windows Server 2008 (32bit, 64bit)
Microsoft Windows Server 2008 R2 (64bit)
Microsoft Windows 7 (32bit, 64bit)
Microsoft Windows 8 (32bit, 64bit)
Microsoft Windows Server 2012

3. Usage Preparation

1) Printer and PC Connection.

Connect the printer and PC via the interface cable.
(The interfaces available for usage are Serial, Parallel, USB and Ethernet.)

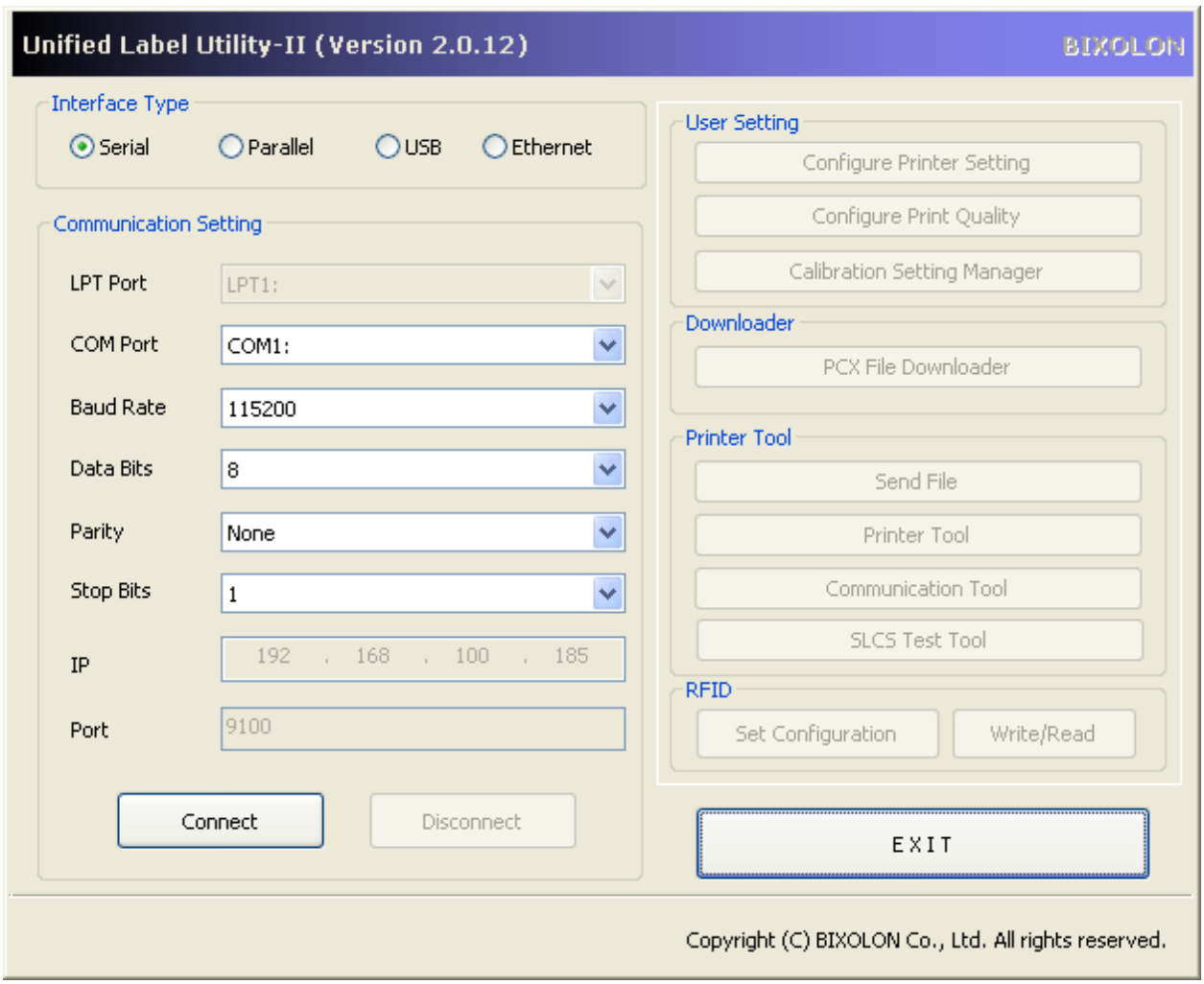
2) Unified Label Utility-II Program Execution.

The program can be installed from the accompanying CD, and Latest file versions can be downloaded from the BIXOLON website. **(http://www.bixolon.com)**

The file name is as follows: “Unified Label Utility-II.exe”.

3) Select the interface type and communication conditions.

4) Click on the “Connect Button”, If the conection is successful, The inactive buttons becaom active with the message “Success open port”. If the connection fails, the following error message appears. “Cannot open port! Please check printer and cable”.



4. Unified Label Utility-II Usage

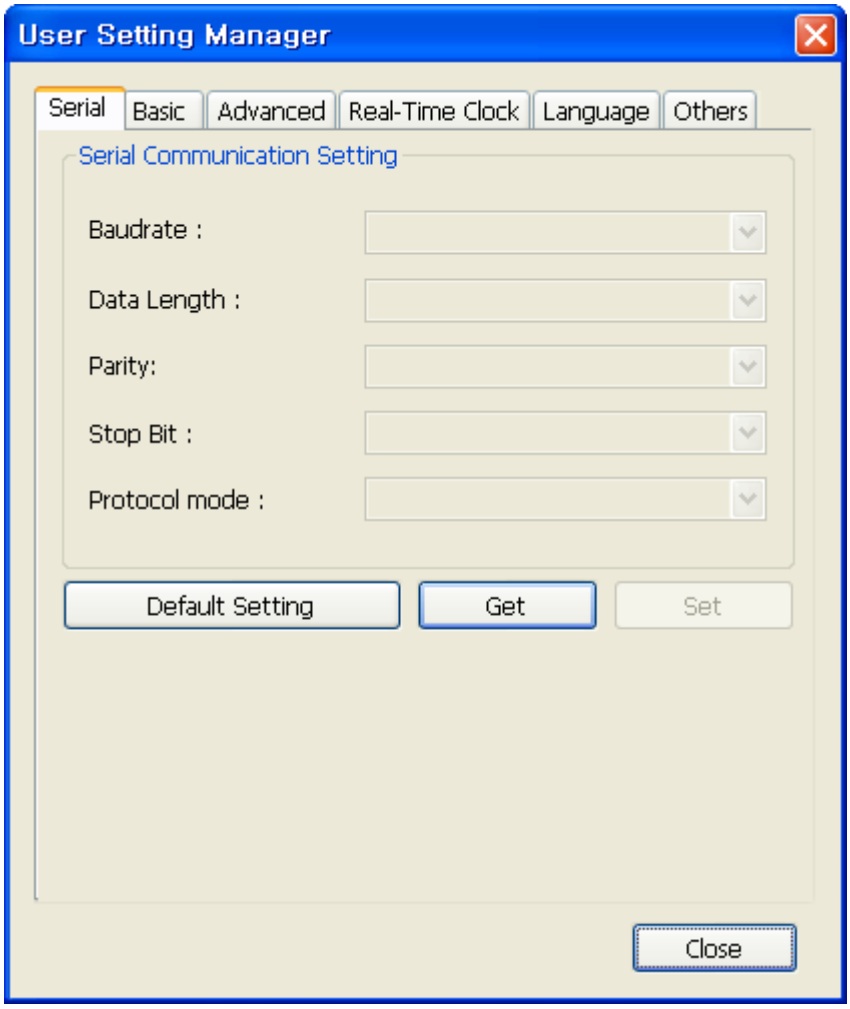
4-1 User Setting Manager

This function is used to change default settings of the printer, including code pages, serial settings, paper size, and print density, to values suited to the user environment.

Click the “Configure Printer Setting”.

4-1-1 Serial Communication Setting

1) Click the “Serial”.



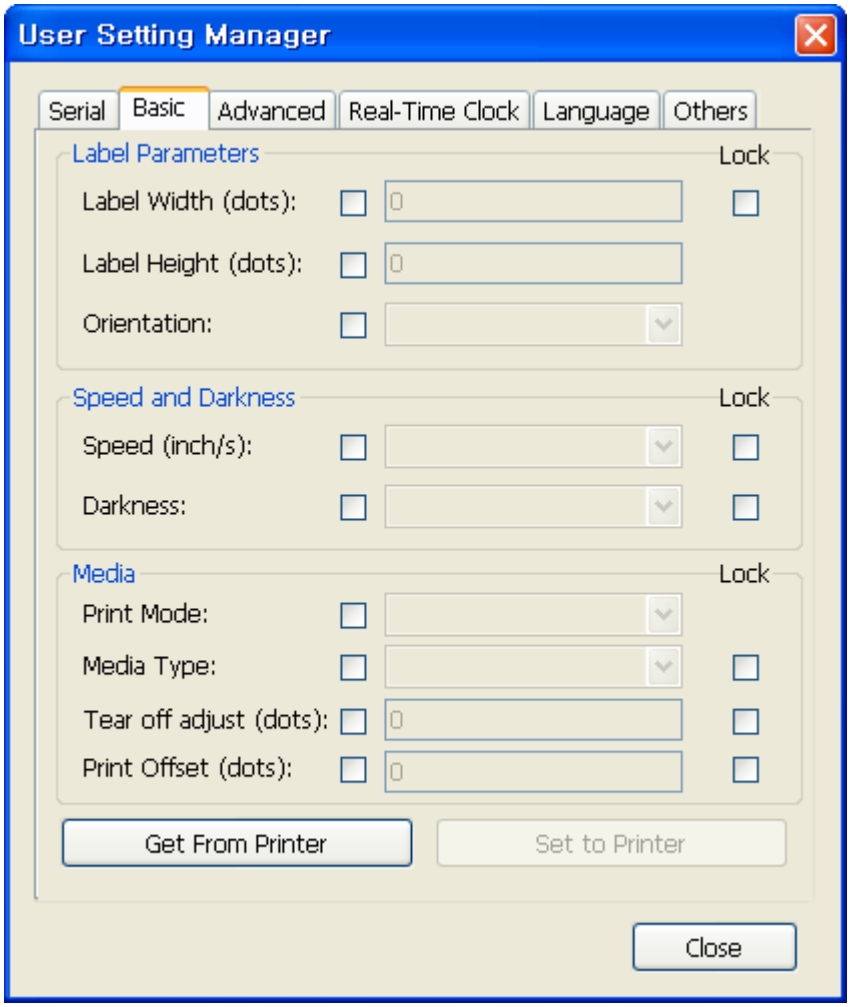
2) Click the “Get” button to read the printer setting value.

3) After modifying setting values, click the “Set” button to store the changed settings.

4) Click the “Default Setting” button followed by the “Set” button to set each item to its default value.

4-1-2 Basic Setting

1) Click the “Basic” Tab to configure speed, darkness and Media options.



2) Click the “Get” button to read the printer setting value.

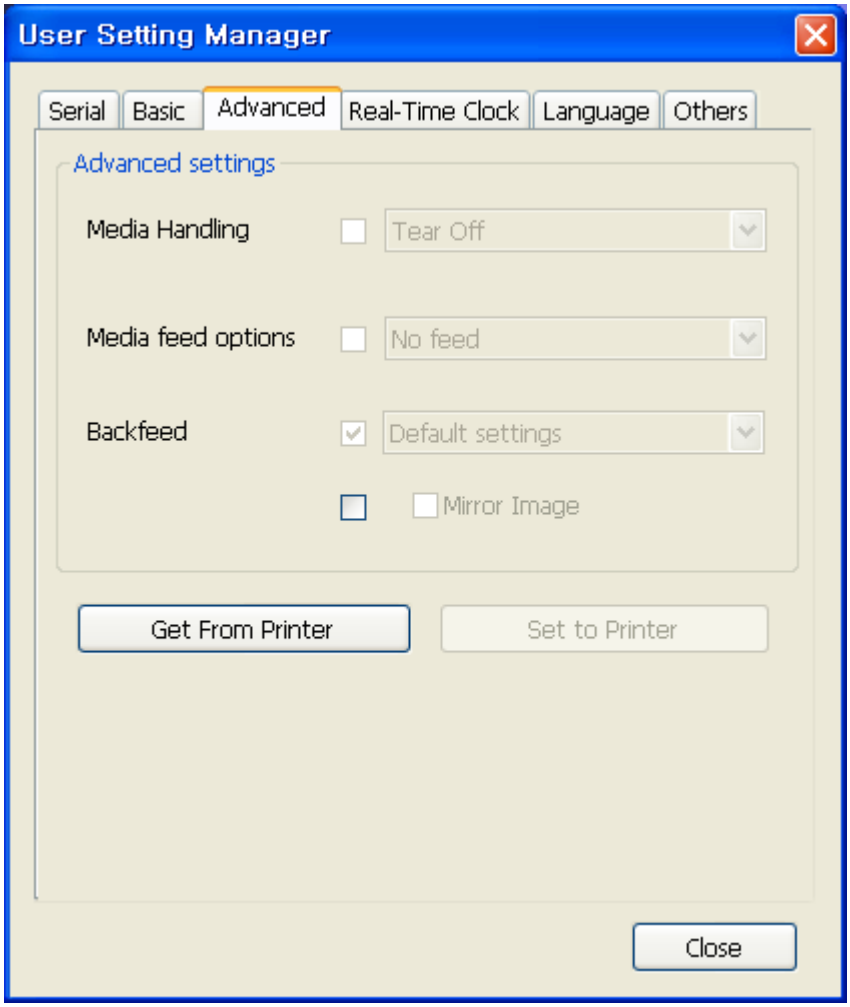
3) Modify each value.

4) If you want to lock the setting value check the lock checkbox.

5) Click the “Set to Printer” to apply changed values to printer.

4-1-3 Advanced Settings

1) Click the “Advanced” tab to configure Meida handling process options.



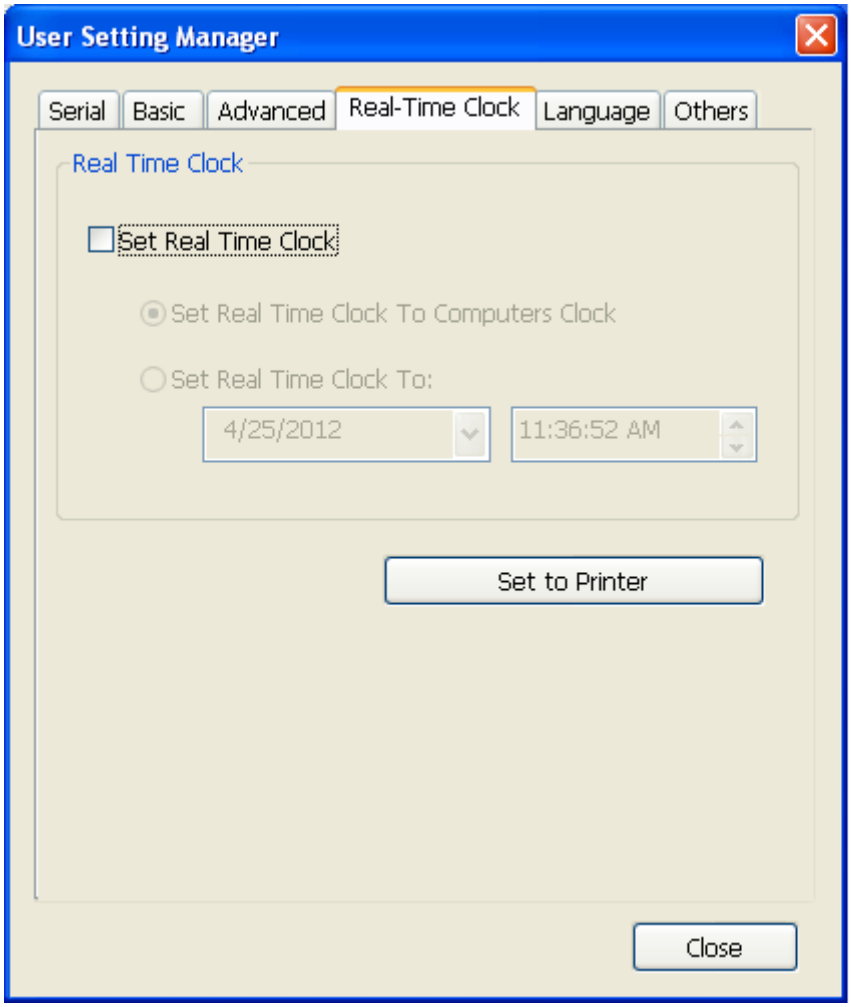
2) Click the “Get” button to read the printer setting value.

3) Modify each value.

4) Click the “Set to Printer” to apply changed values to printer.

4-1-4 Real-time Clock

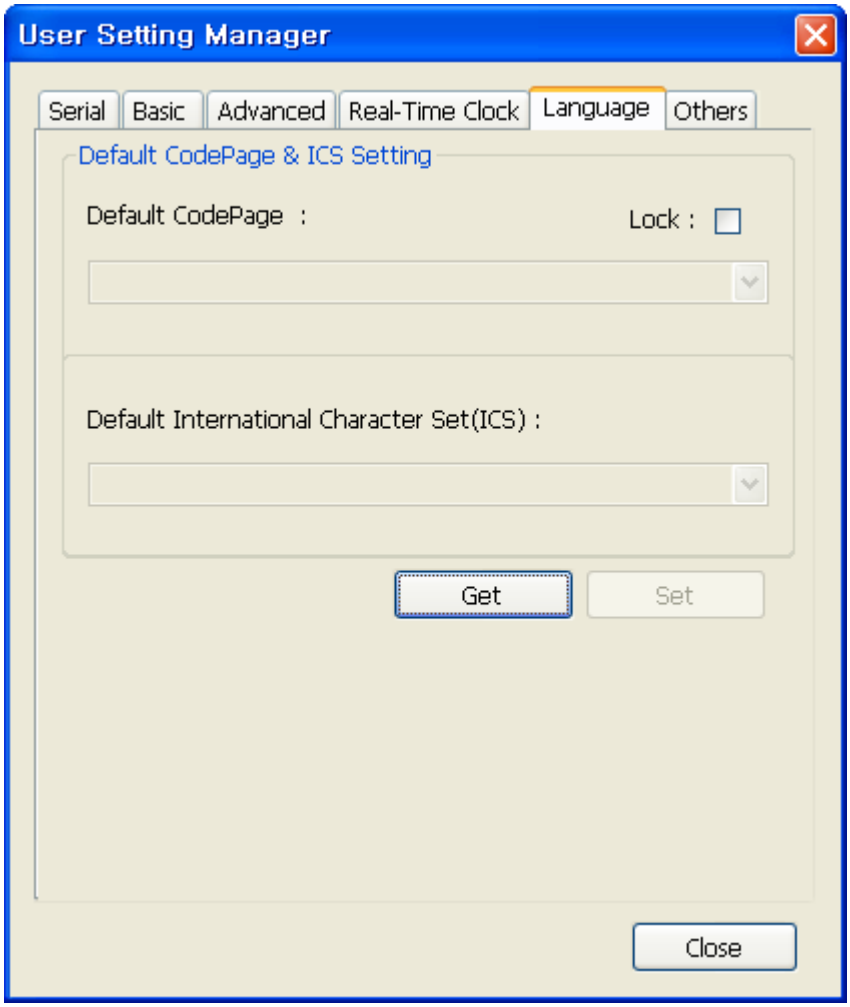
1) Click the “Real-time Clock” tab to set Real-Time Clock.



2) Configure the clocks and click the “Set to Printer” to apply to printer.

4-1-5 Language

1) Click the “Language” tab to set Default Codepage, Default International Character set.



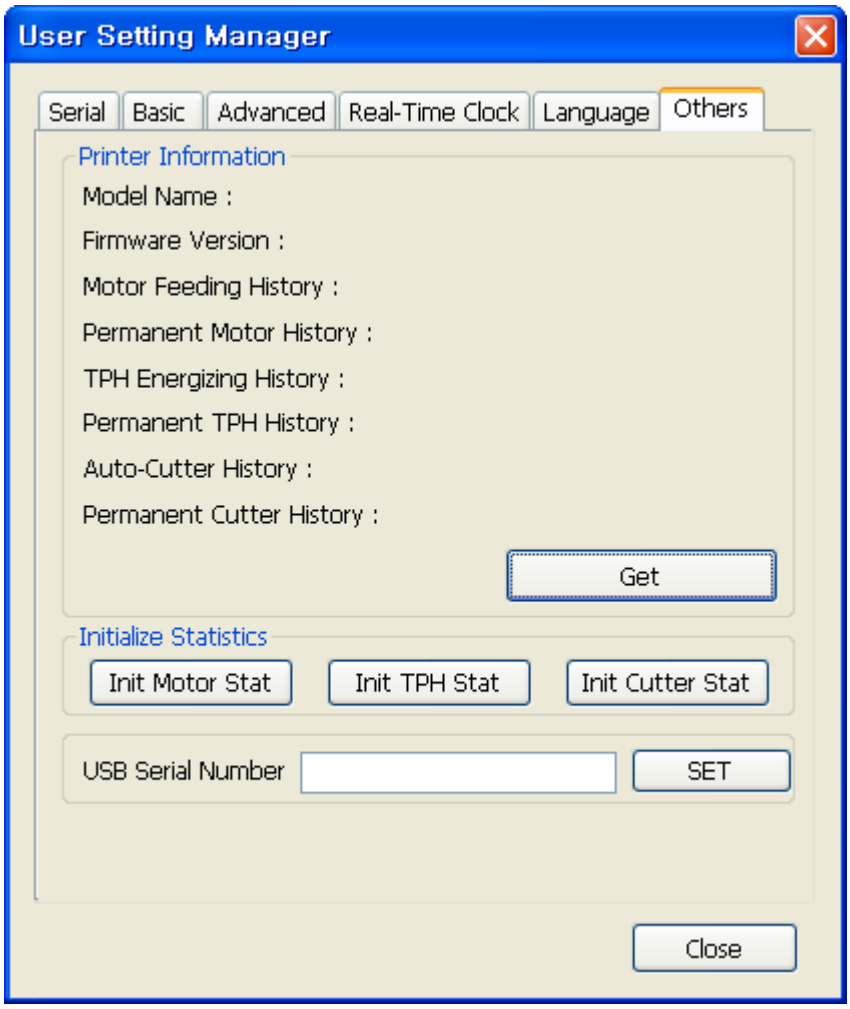
2) Click the “Get” button to read the printer setting value.

3) Modify each value.

4) Click the “Set”button to apply changed values to printer.

4-1-6 Others

1) Click the “Others” tab to set printer information, initialize Motor, TPH, Cutter statistic and set USB serial number.



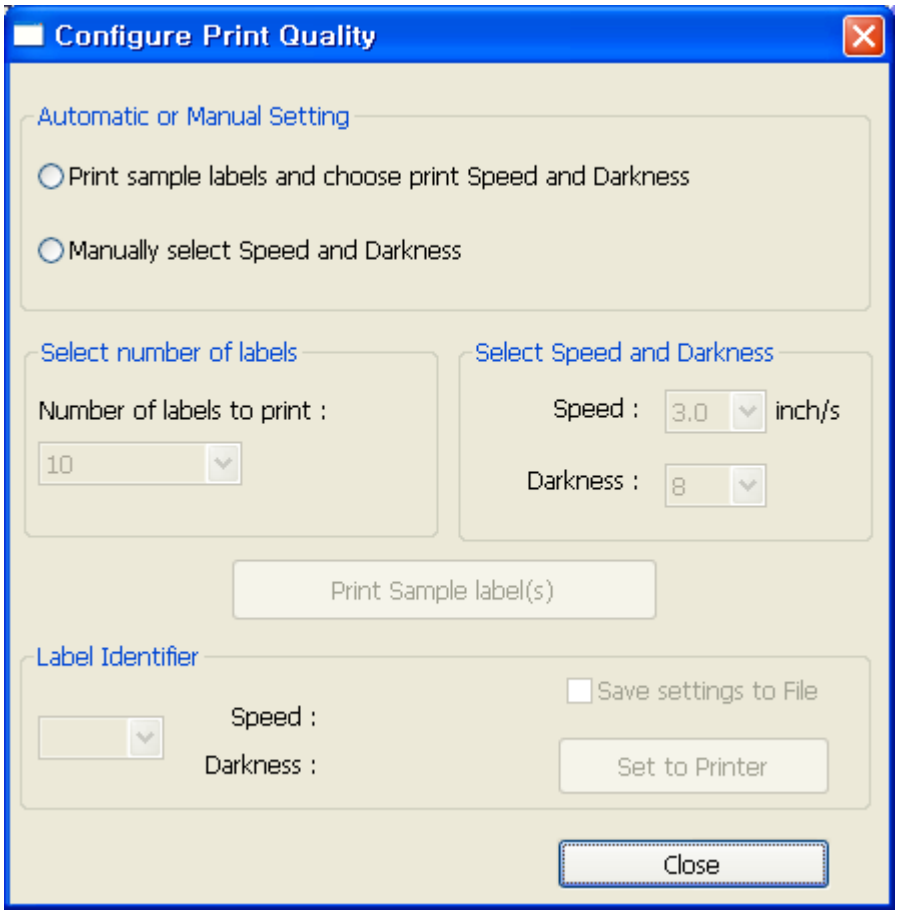
2) Click the “Get” button to read the printer information value.

3) Click the “Init Motor Stat”, “Init TPH Stat”, “Init Cutter Stat” to initialize each value.

4) Input 13 decimal number and click the “Set” button to set USB serial number.

4-2 Configure Print Quality

This function is to configure optimal printing quality. Print reference labels with various settings to find the optimal setting.



- Print Sample labels and choose print Speed and Darkness

1) “Select number of labels” means the number of refenece labels with different settings.

2) Click the “Print Sample label(s)” button to start printing refenece labels which have specific identitier.

3) Choose Label identifier of the label with best printng quality among the printed labels.

4) Click the “Set to Printer” button to apply to printer.

- Manually select Speed and Darkness

1) Choose speed and darkness manually.

2) Click “Print Sample label(s)” button to print label with the selected values.

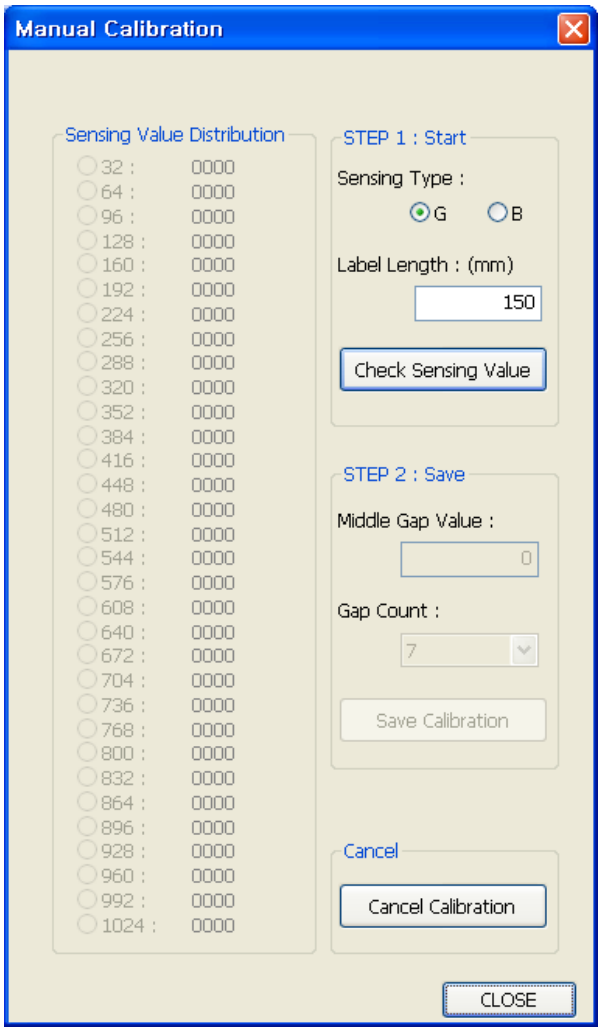
3) After fiding optimal value, Click the “Set to Printer” button to apply to printer.

4-3 Manual Calibration

Manual-calibration of media detection can be used when the printer cannot detect a media gap (or black mark) even after auto-calibration has been executed.

Users can calibrate sensor parameters in detail.

Please make sure the printer is connected and execute the utility program.
Press the Calibration Setting Manager Button after setting the interface type.



1) Select the sensing type and input the label length by millimeter and click on “Check Sensing Value” tap. Then printer starts to calibrate.

2) After scanning the paper, the scanned values are displayed on the utility.

3) Optimal sensing values will appear in black bold letters on the left of the utility screen and select one of the values and click on “Save Calibration”.

4) If chosen value does not work properly, please try the other values among the black bold letters.

5) To go back to the initial value, please click on “Cancel Calibration”.

4-4 PCX File Downloader

This function is used when saving a black-and-white PCX-format image to flash memory.

Saved images can be recalled at any time for printing.

PCX File Downloader usage is described as follows.

The image file must be prepared prior to using this function.

Click the “PCX File Downloader” button.

4-4-1 Image Store (IS)

1) Open the PCX file (*.pcx).
2) Enter the image name and click the Download button. The image name is used to recall or delete images

4-4-2 Image Delete (ID)

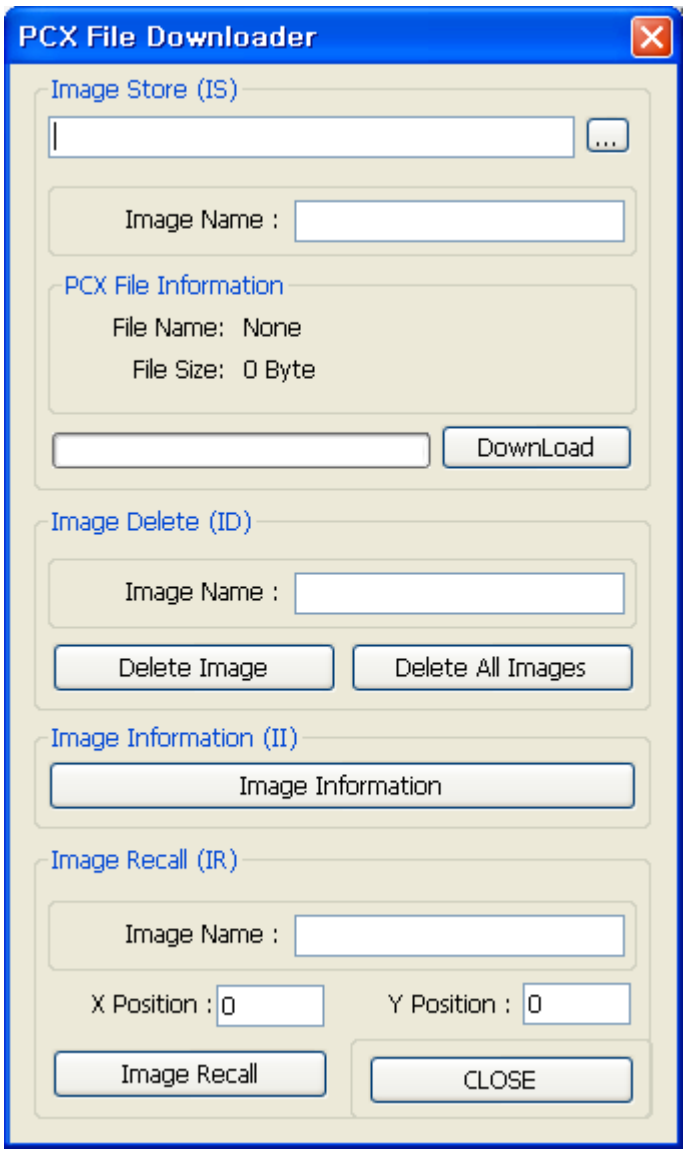
1) Check the list of stored images by clicking the Image Information button.
2) Enter the name of the image to be deleted and click the Delete Image button.
3) To delete all images stored in the printer memory, click the Delete All Images button without entering an image name.

4-4-3 Image Information (II)

Information for the saved image is displayed.

4-4-4 Image Recall (IR)

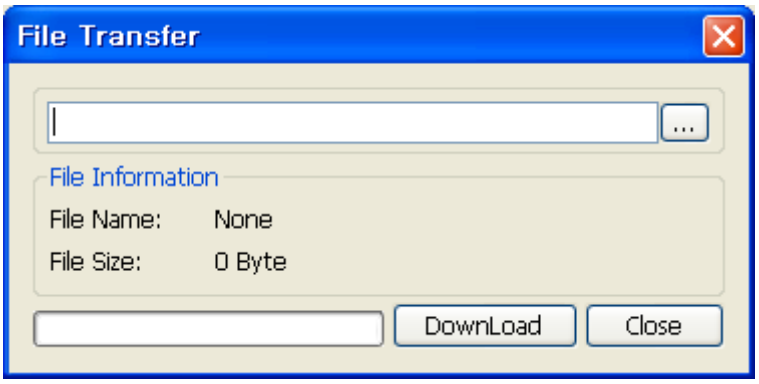
Downloaded images can be recalled and printed using the IR command.


PCX File Downloader
Image Store (IS)
...
Image Name :
PCX File Information
File Name: None
File Size: 0 Byte
DownLoad
Image Delete (ID)
Image Name :
Delete Image
Delete All Images
Image Information (II)
Image Information
Image Recall (IR)
Image Name :
X Position : 0
Y Position : 0
Image Recall
CLOSE

4-5 File Transfer

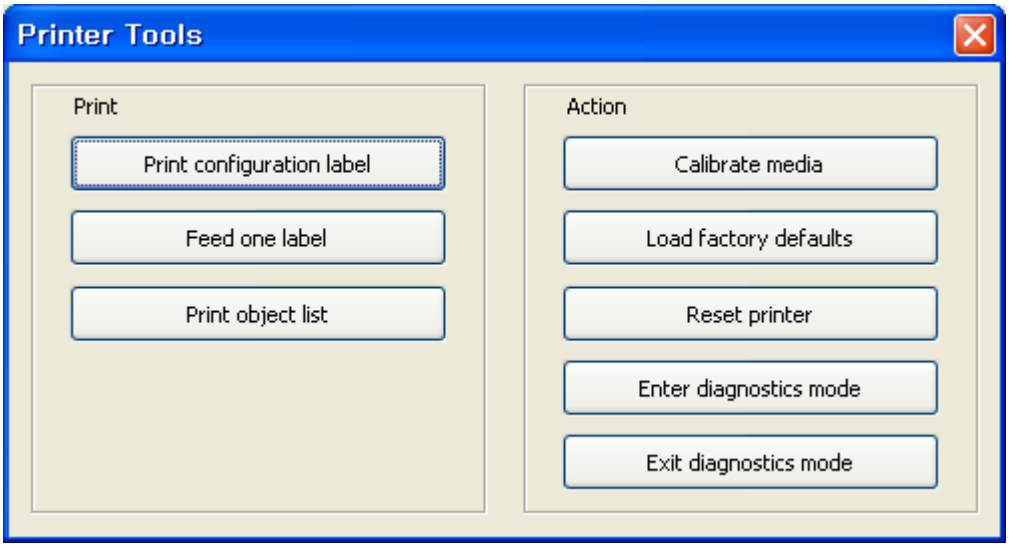
This function is used when sending test files, such as command scripts, to the printer.

1) Click “Send File” button on the main window.



2) Select the file to be sent and click the “Download” button to send the file to the printer.

4-6 Printer Tools



- Print configuration label: To print out printer's configuration infomation.

- Feed one label: To feed one blank label.

- Print object list: To printout the fonts list and memory informations.

- Calibration media: To execute auto-calibration to calibrate media sensor.

- Load factory defaults: To set printer's default configuration as factory's initial setting.

- Reset printer: Reboot printer.

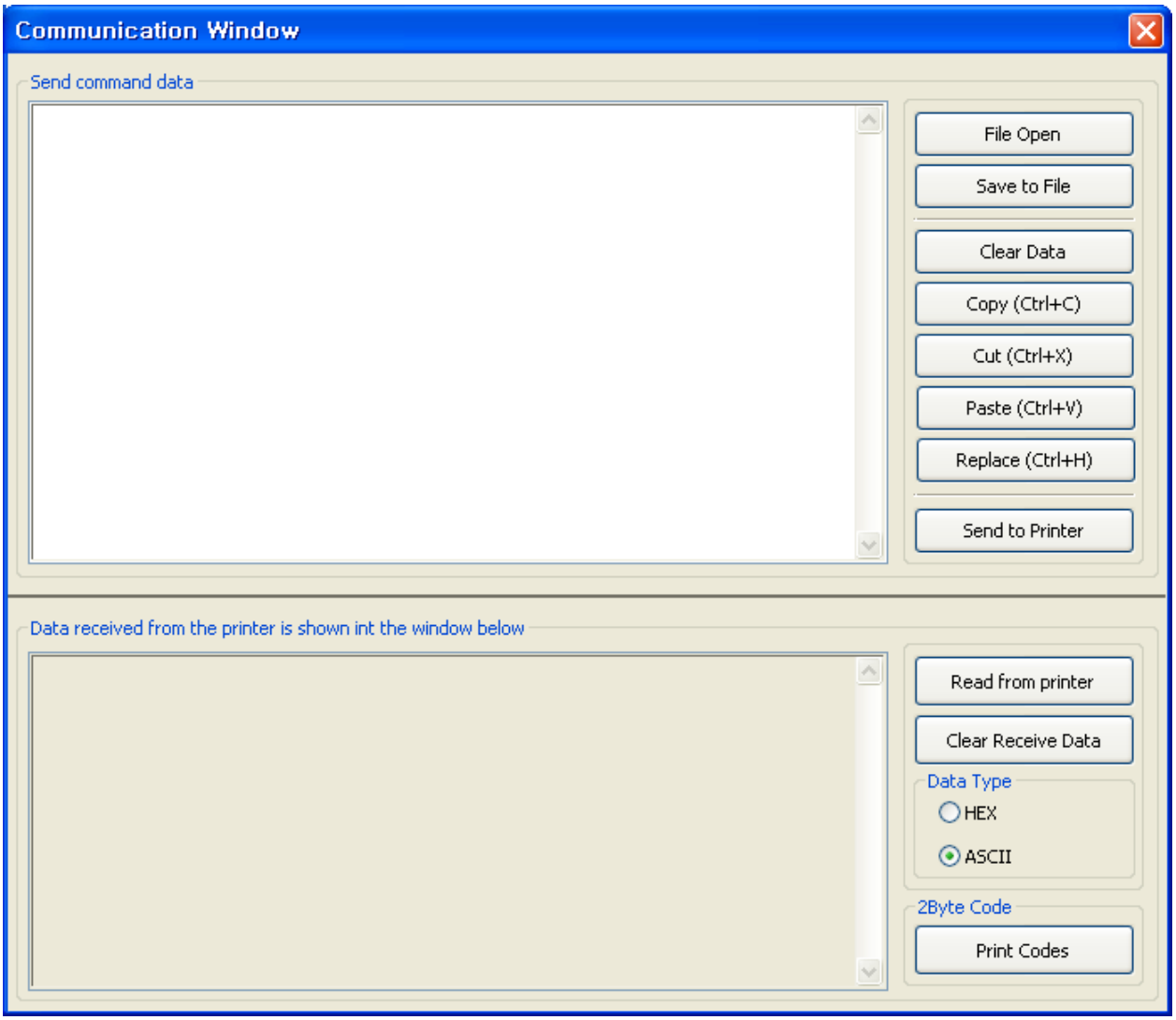
- Enter diagnostics mode: To make printer enters into Diagnostic Mode(data dump mode). In this mode, printer prints out all received data with hex decimal format.

- Exit diagnostic mode: To exit Diagnostic Mode and return to normal mode.

4-7 Communication Window

This function is used to test commands or create sample labels. Type the command script in the edit window or open the saved command script. Responsed data from printer can be read with this program.

1) Click the “Communication Tool” on the main window to start this function.



2) Type the command lines direclty or open the save command script file.

3) Click the “Send to Printer” button to send data to printer.

4) If the command which request response from printer to host is used, “Read from Printer” can be used to see responsed data from printer.

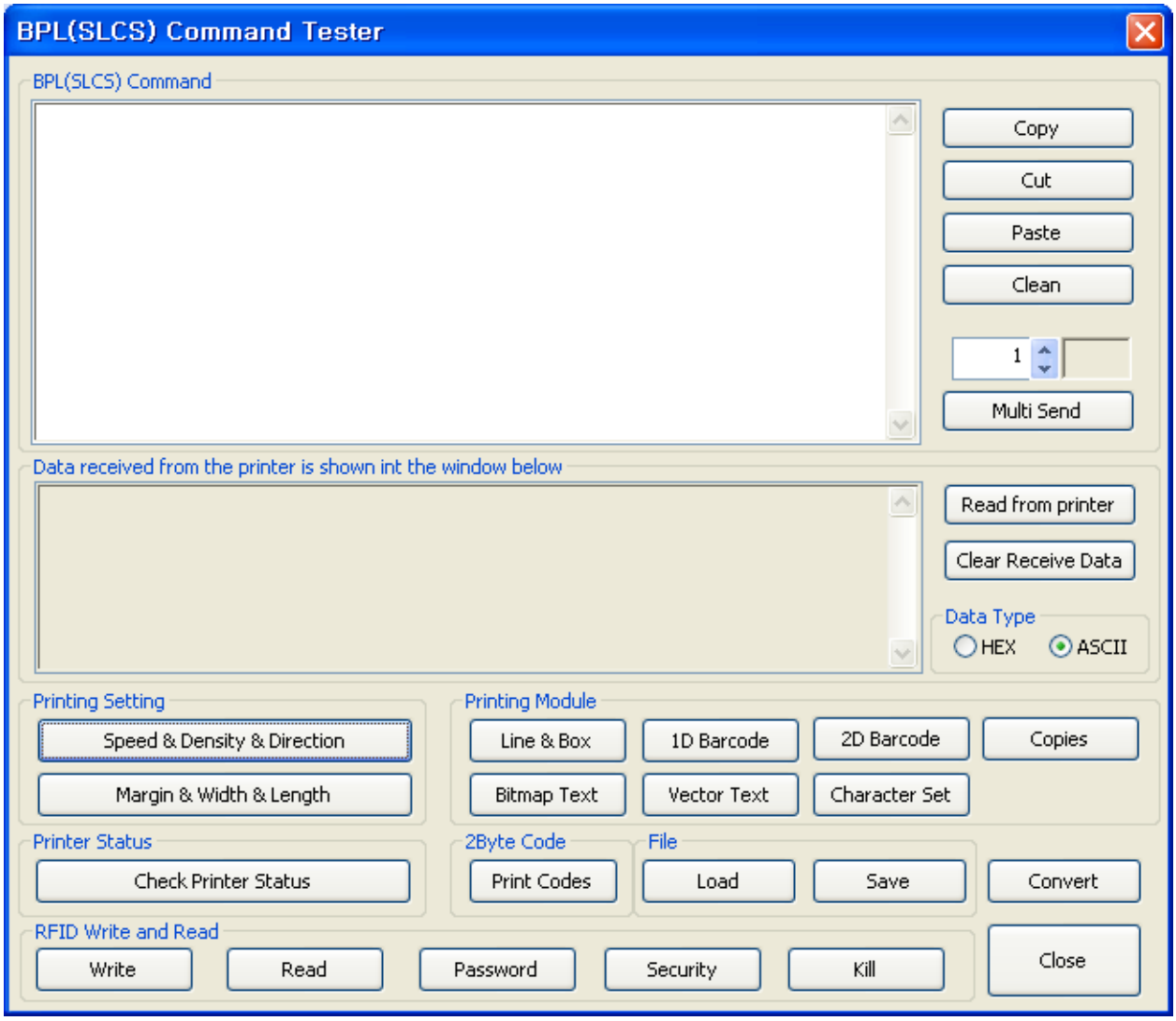
5) “Clear Receive Data” button is used to make the received data windows clean.

6) Click the “Print Codes” button to print two bytes codepage.

4-8 SLCS Test Tool

This function is used to test printing-related commands of the SLCS (Bixolon Label Command Set) and create a brief label sample for test printing.

1) Click the “SLCS Tester” button.



2) Click the “Multi Send” button to send data to printer.

3) If the command which request response from printer to host is used, “Read from Printer” can be used to see responsed data from printer.

4) “Clear Receive Data” button is used to make the received data windows clean.

5) The function of each button is described as follows
   a) Line & Box: creates a command for line and box drawing
   b) 1D Barcode: creates a command for a 1-dimensional barcode
   c) 2D Barcode: creates a command for a 2-dimensional barcode
   d) Copies: printing counts
   e) Bitmap Text: creates a command for bitmap image string recognition
   f) Vector Text: creates a command for vector image string recognition
   g) Character Set: creates a command for code page and ICS setting
   h) Speed & Density & Direction: creates a command for speed, print density, and print direction setting
   i) Margin & Width & Length: creates a command for margin and width and length of print paper setting
   j) Check Printer Status: check cover, paper, and error status of printer
   k) Write: write data to RFID tag
   l) Read: read data from RFID tag
   m) Password: set password to RFID tag
   n) Security: set security code to RFID tag
   o) Kill: set disable to RFID tag
   p) SLCS Command Edit: function for command cutting, copying, pasting, and erasing
   q) Print Codes: print 2byte codes
   r) Load: recalls a file with a saved command
   s) Save: saves a created command to a file
   t) Convert: converts measurement units (inch, mm, cm)
   u) Close: closes the SCLC test program